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Surfaces Incorporating Treated Leaves for Chemicalfree Physical Capture of Pest Arthropods

Tech ID: 33473 / UC Case 2023-776-0

BRIEF DESCRIPTION

A breakthrough technology utilizing chemically treated leaves which retain their insect-entrapping properties, providing an effective and less expensive solution for pest control without the use of chemical insecticides.

APPLICATIONS

- » Carpet liners
- >> Strips along mattress covers, box springs, headboards
- » Suitcase liners
- >> Fabric coverings for furniture in public areas or transportation vehicles

ADVANTAGES

Cost-effective: The components required are inexpensive, readily available, and relatively safe.

Reduced exposure to pesticides: offers a non-chemical insecticide pest control solution.

Highly effective: captures more bed bugs more quickly than other solutions as the pests do not avoid the treated surfaces.

Problems Solved:

- >> Overcomes the resistance of bed bugs to chemical insecticides
- >> Reduces the time and effort required to heat entire buildings for pest control
- >> Eliminates the issue of sticky traps catching non-target items

DESCRIPTION

This technology involves using chemically treated leaves from bean plants that have the ability to entrap bed bugs and other insect pests. Unlike fresh leaves, these treated leaves retain their pest-entrapping properties for at least a year, offering a sustainable solution for pest control. The chemical treatment used in the preparation of the material is not a chemical insecticide but one that affects the properties of the leaves. These leaves, in whole or part, can be safely incorporated into various materials used in domestic and public settings.

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INVENTORS

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OTHER INFORMATION

CATEGORIZED AS

- » Materials & Chemicals
 - >> Other
 - » Pesticides and Insecticides

RELATED CASES

2023-776-0

PATENT STATUS

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